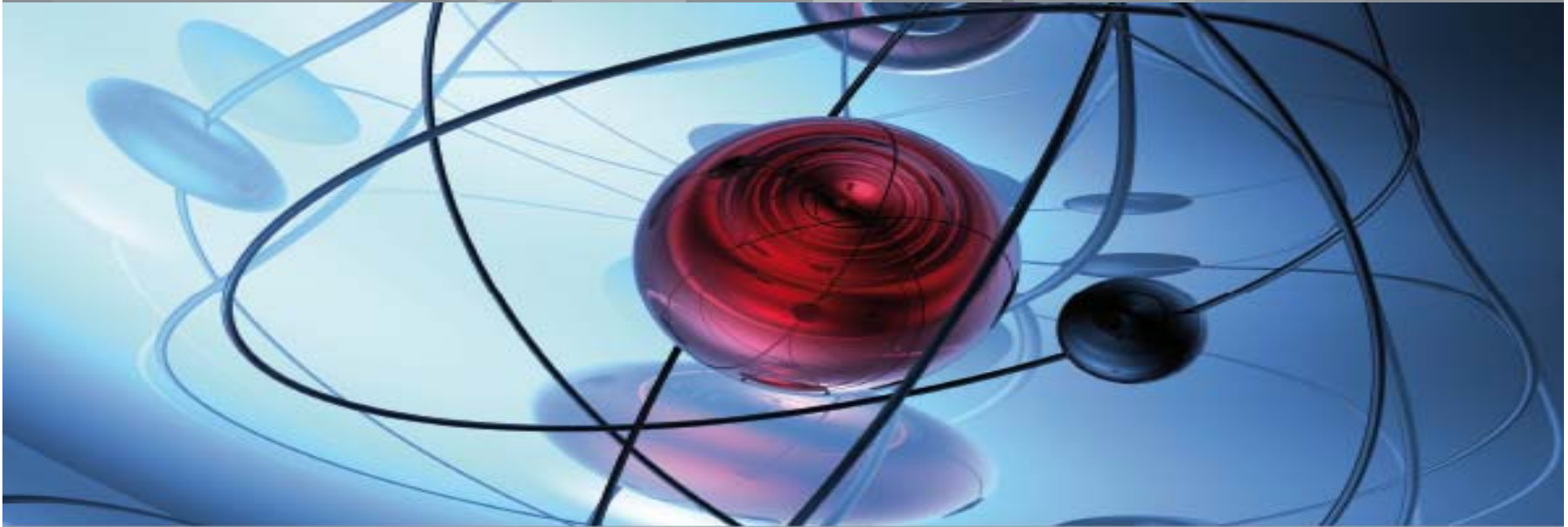


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IEA FORSCHUNGS
KOOPERATION

NACHHALTIGwirtschaften



International and National R&D- programmes and activities

Dipl.-Ing. Theodor Zillner

bm **vt**

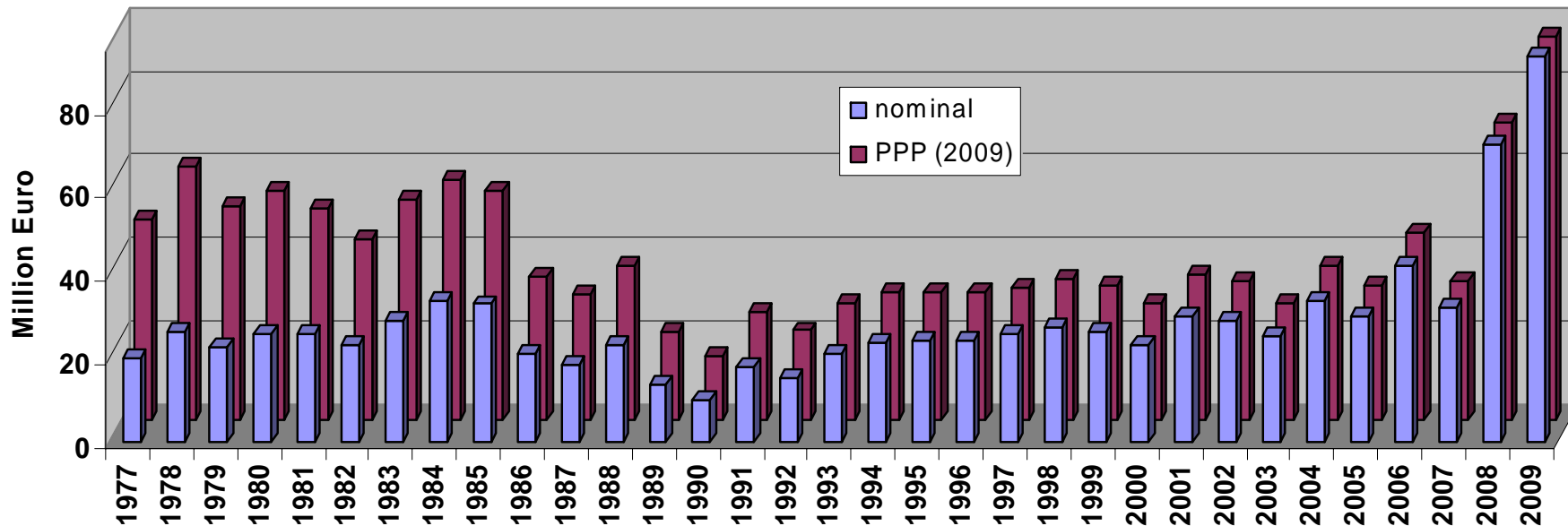
Bundesministerium für Verkehr,
Innovation und Technologie

Abteilung für Energie- und
Umweltechnologien

Contents

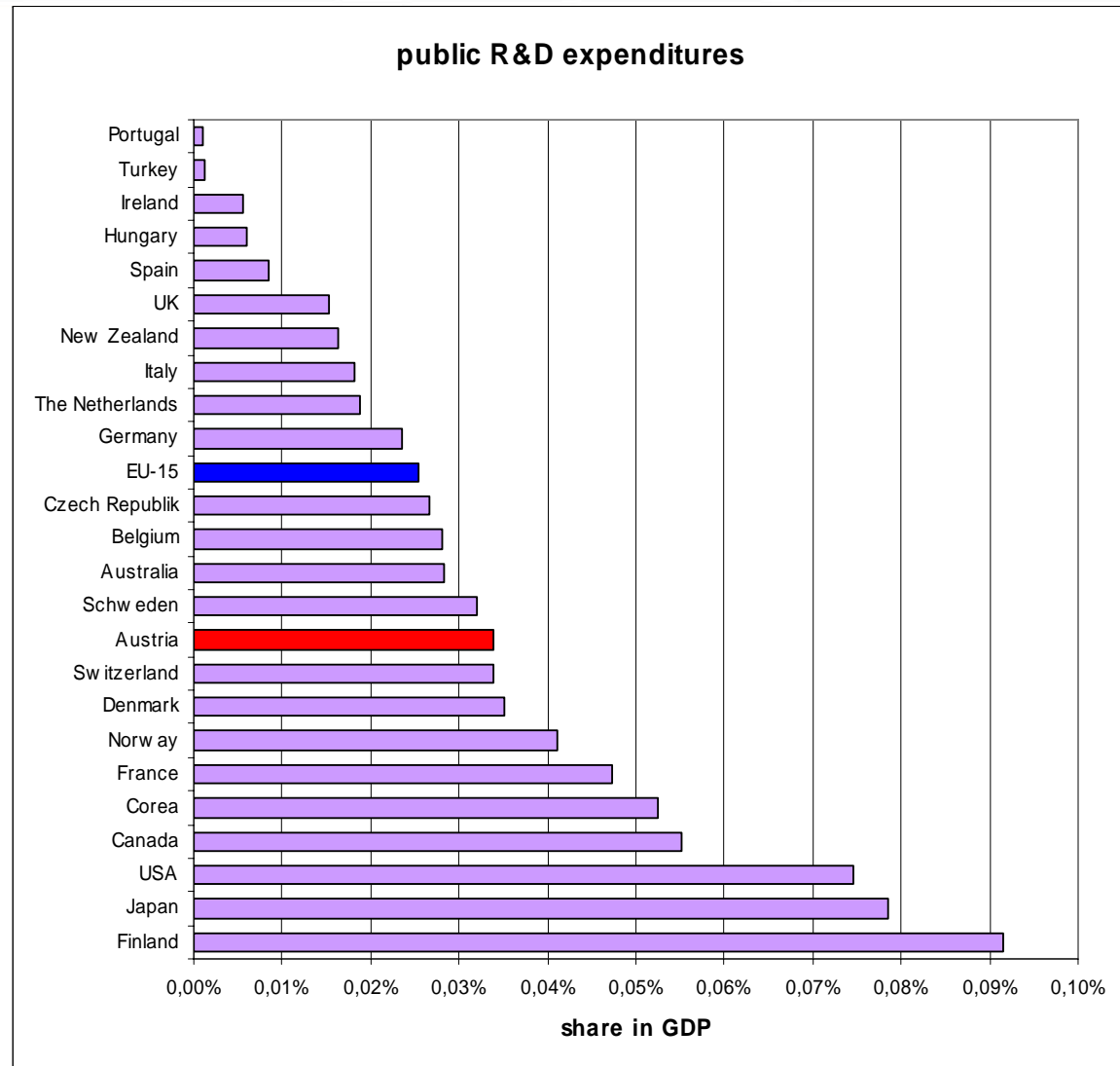
- **Austria's R&D topics and spending for energy technologies**
- **Austria in the IEA**
- **EU strategies and programmes**

Austria's R&D expenditures 1977 - 2009

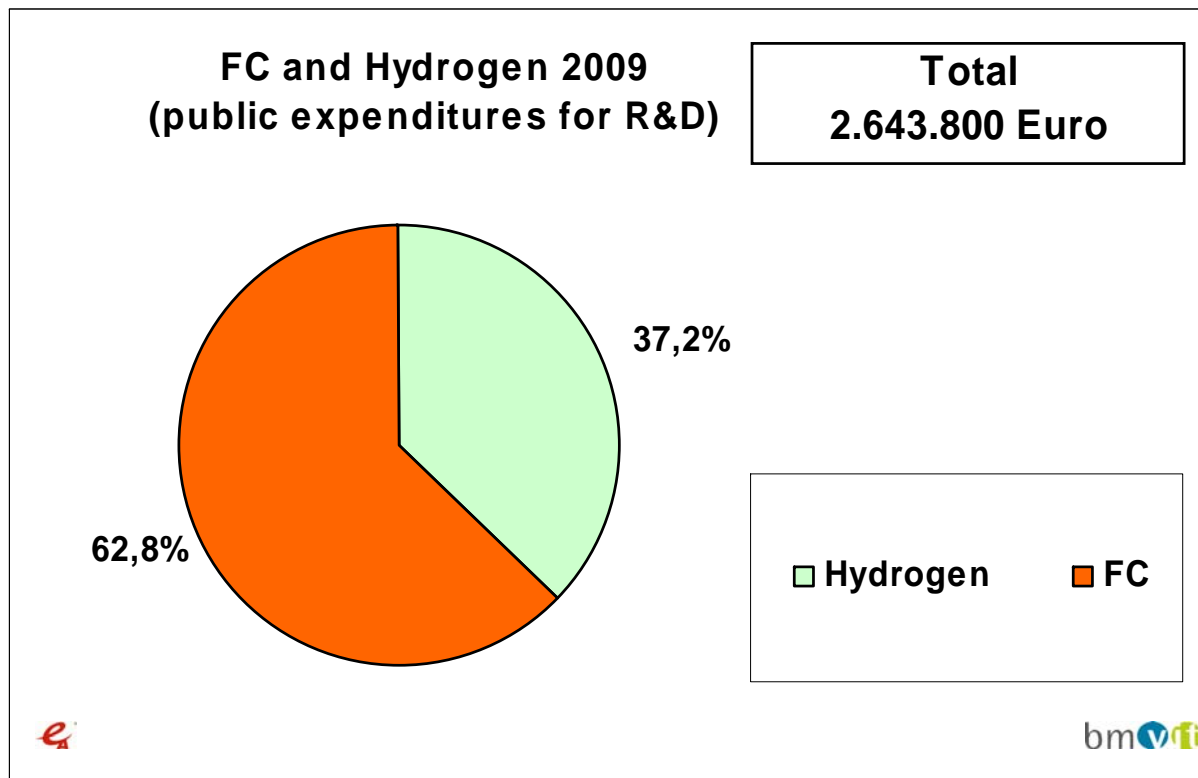


Austria's R&D efforts in the energy sector in an international context

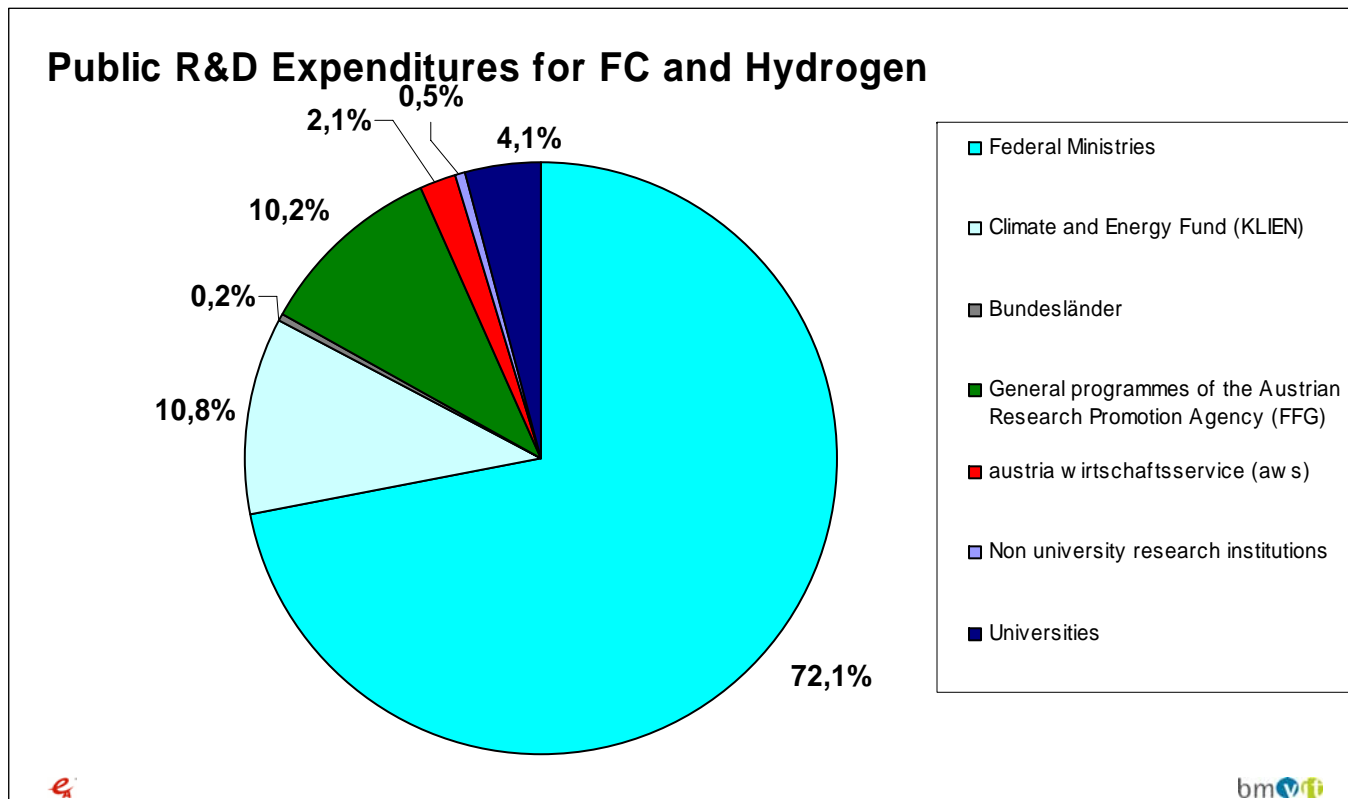
(Data: IEA, calculations AEA)



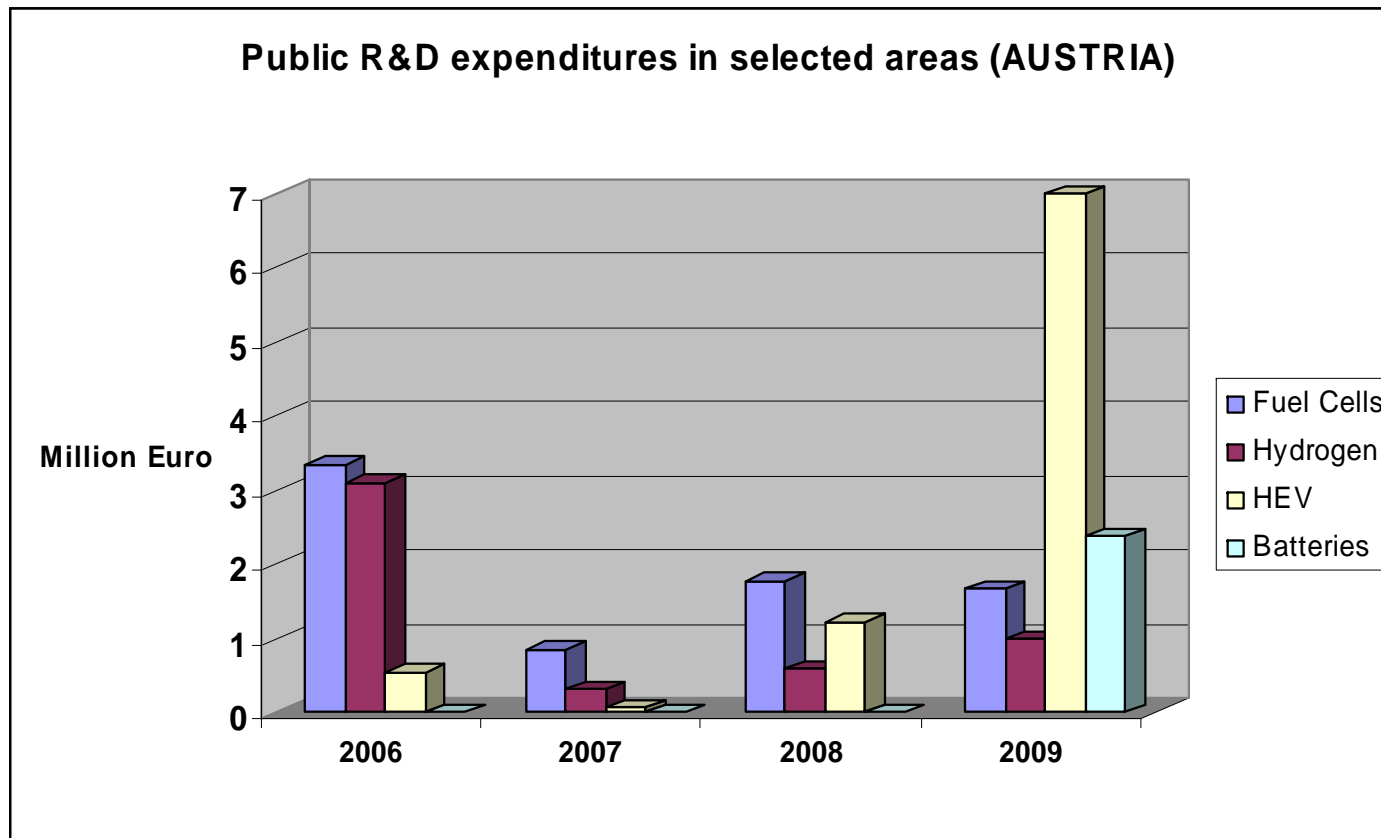
Austria's R&D expenditures for hydrogen and fuel cells in 2009



Austria's R&D expenditures for hydrogen and fuel cells in 2009 - Institutions



Austria's R&D spending for hydrogen, fuel cells and other „competing“ technologies – What are the trends?



Research and Development: open call

- 4th Call „Neue Energien 2020“
- From - to: 07.06.2010 - 08.09.2010
- Budget: 35 Mio Euros
- Thematic focus on:
 - Energy systems, grids and end-user
 - Storage technologies
 - Energy efficiency in industry
 - Energy efficiency in transportation (components and systems)
 - Renewable energy sources: bioenergy, PV and thermal solar energy

Austria and the technology collaboration programme of the IEA

Strategy:

- Early technology picking of international trends and developments
- International collaboration in technology ambitious topics
- Early identification of market trends and positioning/integration of Austrian technology strengths and leadership

Initiatives/activities:

- Extension of the IEA technology cooperation taking into account Austrian R&D strengths
- Creating/fostering the financing instrument for Austrian contributions and national dissemination in the IEA

Austrian R&D institutes participate in 17 of 42 IEA implementing agreements:

▪ Renewables

Solar heating and cooling; photovoltaic power system; bioenergy; wind energy; solar power and chemical energy systems

▪ Energy end-use technologies

Heat pumps; Demand-Side Management; hybrid and electric vehicle technologies and programmes; advanced motor fuels; efficient electrical end-use equipment; advanced fuel cells; electricity networks analysis, research and development; energy conservation in buildings and community systems

▪ Fossil fuels

Enhanced recovery of oil; clean coal centre; fluidised bed conversion; greenhouse gas R&D programme

Strategic energy technologies in the EU

- European Industrial Initiatives (EII) in:
 - Solar Europe (PV and CSP)
 - European Wind
 - Bio-Energy
 - European CO₂ capture, transport & storage
 - European electricity grid
 - Sustainable nuclear fission (gen-IV)
 - Smart Cities
- 2010 – 2020: 64 billion Euros are foreseen for the EII
- European Energy Research Alliance (EERA)
 - Joint Programmes in the topics: PV, wind, geothermal, smart grids already implemented
 - Further topics are in preparation: new materials, CCS, CSP, bioenergy, fuel cells, hydrogen, smart cities, energy storage and basic R&D
- The topic: Fuel Cells and Hydrogen is organised in a Joint Technology Initiative (JTI), the EC will fund 470 M€ from the FP7 programme over six years

Open Call: FCH JU Call for Proposals 2010 Part 1

- Identifier: FCH-JU-2010-1
- Publication Date: 18 June 2010
- Budget: € 89 100 000
- Deadline: 13 October 2010 at 17:00:00 (Brussels local time)
- Specific Programme(s): Cooperation
- Further Information: <http://rp7.ffg.at/fch-ju-2010-1>

Thank you for your attention!

DI Theodor Zillner

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Federal Ministry for Transport, Innovation
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